

Claim Listing:

1. (Previously Presented) A recording sheet for ink jet printing comprising a support wherein at least one ink receiving layer is coated thereon and contains binders, a porous inorganic oxide and an aliphatic hydroxycarboxylic acid with more than 2 C atoms; wherein said porous inorganic oxide is colloidal aluminum oxide, colloidal aluminum oxide/hydroxide or pseudo-bohemite and further includes at least one element of the rare earth metal series of the periodic system of the elements with atomic numbers 57 to 71.

2. (Previously Presented) A recording sheet according to claim 1 wherein said aliphatic hydroxycarboxylic acid with more than 2 C atoms is a water soluble monohydroxymonocarboxylic acid.

3. (Previously Presented) A recording sheet according to claim 2 wherein said water soluble monohydroxymonocarboxylic acid is 2-hydroxypropionic acid.

4. (Canceled).

5. (Previously Presented) A recording sheet according to claim 1 wherein said porous inorganic oxide is colloidal γ -Al₂O₃.

6. (Canceled)

7. (Canceled).

8. (Previously Presented) A recording sheet according to claim 7 wherein said pseudo-bohemite is prepared by hydrolysis of aluminum isopropoxide in the presence of the hydroxycarboxylic acid.

9. (Previously Presented) A recording sheet according to claim 1 to wherein said binders are gelatine, polyvinyl alcohol or polyvinyl pyrrolidone or mixtures thereof.

10. (Canceled).

11. (Previously Presented) A recording sheet according to claim 7 wherein said element is present in an amount of from 0.04 to 4.2 mole percent relative to Al_2O_3 .

12. (Previously Presented) A recording sheet according to claim 1 further comprising water soluble metal salts selected from the group consisting of alkaline earth metal salts and rare earth metal salts.

13. (Previously Presented) A recording sheet according to claim 12 wherein said rare earth metal salt is lanthanum nitrate.

14. (Previously Presented) A recording sheet according to claim 1 further comprising cross-linking agents.

15. (Previously Presented) A recording sheet according to claim 1 further comprising fillers selected from the group consisting of kaolin, talcum, Ca- or Ba-carbonates, silica, titanium dioxide, bentonite, zeolite, aluminum silicate, calcium silicate or colloidal silicium dioxide and polymer beads.

16. (Previously Presented) A recording sheet according to claim 1 further comprising at least one or more of a compound selected from the group consisting of surfactants, brightening agents, UV absorbers, light stabilizers and antioxidants.

17. (Previously Presented) A recording sheet according to claim 1 wherein said porous inorganic oxide and said aliphatic hydroxycarboxylic acid with more than 2 C atoms are in the same layer.

18. (Previously Presented) A recording sheet according to claim 1 further comprising an auxiliary layer which includes a porous inorganic oxide and or an aliphatic hydroxycarboxylic acid with more than 2 C atoms.

19. (Previously Presented) A recording sheet according to claim 1 wherein the coating on said support has a thickness in the range of 0.5 to 100 μ m dry thickness.

20. (Previously Presented) A recording sheet according to claim 1 wherein said support is coated with an antistatic layer or an anticurl layer on the uncoated support surface.

21. (Previously Presented) A recording sheet according to claim 1 further comprising fillers selected from the group consisting of inorganic inert particles.